H. H. HUNTLEY.

Pattern for Casting Stove-Leg Attachment.

No. 209,811. Patented Nov. 12, 1878.

Fig. 1.

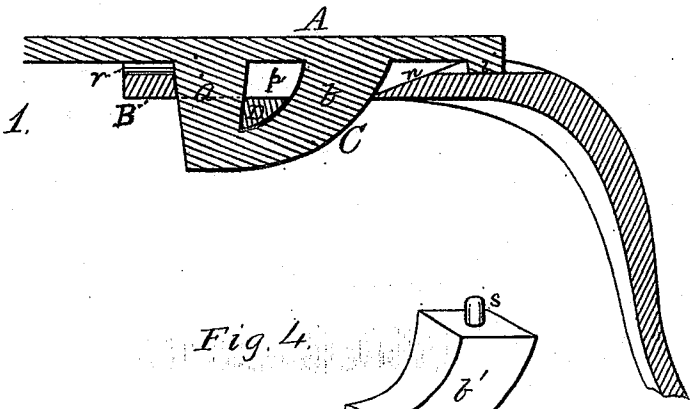


Fig. 4.

Fig. 3.

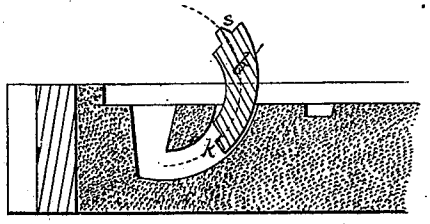
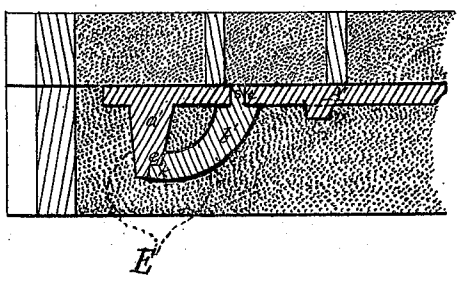


Fig. 2.



WITNESSES

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HOSEA H. HUNTLEY, OF QUINCY, ILLINOIS.

IMPROVEMENT IN PATTERNS FOR CASTING STOVE-LEG ATTACHMENTS.

Specification forming part of Letters Patent No. **209,811**, dated November 12, 1878; application filed March 2, 1878.

To all whom it may concern:

Be it known that I, HOSEA H. HUNTLEY, of Quincy, in the county of Adams and State of Illinois, have invented a new and valuable Improvement in Patterns for Casting Stove-Leg Attachments; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 represents a sectional view of a stove-leg as it is applied to the attachment-lug. Fig. 2 is a sectional view of the pattern of the attachment-lug in the drag. Fig. 3 is a sectional view of the drag, showing the curved branch of the pattern partially detached. Fig. 4 is a perspective view of the curved branch of the pattern.

This invention has relation to means for casting attachment-lugs for stove-legs, evaporating-pans, sugar-boilers, and the like.

The nature of the invention consists in the construction and novel arrangement of a pattern for casting attachment-lugs for the legs of stoves and other heavy articles, said pattern having an upright lug-branch and a separate detachable curved branch, as will be hereinafter more fully set forth.

In the annexed drawings, the letter A designates the bottom of a stove; B, the horizontal arm of the stove-leg; C, the eye-lug upon the stove-bottom, and D the key which confines the leg to the stove. The eye-lug C is triangular in its general form, and consists of an upright pyramidal part, *a*, and a curved portion, *b*, diminishing in size from its connection with the plate A to its point of union with the upright portion. The curved surfaces of the portion *b* are regular arcs of circles, as shown in Fig. 3.

The pattern E, from which the bottom plate having the attachment-lug is cast, is formed in two parts.

The upright wedge-form projection *a'*, which serves to prepare the mold for the cast branch *a* of the lug C, is made entire with the plate portion A' of the pattern, and is provided at its lower end with an attachment notch or seat, *e*.

The curved branch *b'* of the pattern, which forms that portion of the mold in which the curved branch *b* of the lug is cast, is detachable and of a circular or arc-shaped tapering form. Its lower end is formed with a projection, *k*, which engages with the notch *e* of the projection *a'* of the pattern; and its upper end is provided with a stud, *s*, which passes through an aperture, *t*, in the plate portion A' of the pattern.

The two portions of the pattern being put together in the manner indicated, it is sunk in the sand of the drag in the usual manner to form the mold for the plate and lug. After the sand has been packed the plate portion A' of the pattern is detached upward, leaving the curved branch *b'*, which is afterward removed by a curved motion, the projection *s* serving as a handle.

Upon the plate portion of the pattern a smaller projection, *v*, is formed in rear of the aperture *t*. When the curved branch of the pattern has been removed the mold is ready. Molten metal is then poured in, and the eye-lug and stove-bottom cast in one piece.

In line with the lug is an angular catch, *i*, cast in the mold formed by the small lug *v* of the pattern, the function of which will be hereinafter explained.

The under side of the horizontal arm B of the leg is made with a dished recess, *n*, at the bottom of which is a slot, *p*, of sufficient size to receive the eye-lug; and it is provided with an angular recess, *r*, designed to receive the catch *i* upon the stove-plate A. This arm or plate is cast with the leg complete, and upon coming from the mold is ready for use.

The dish upon the under side of the leg branch or arm B greatly facilitates the attachment of the leg to the stove, as it directs the eye-lug accurately to the opening of the slot *p*. The bottom of the stove not being visible, this construction of the leg-branch or arm saves considerable time and labor. The leg being in position on the stove-bottom, a triangular key, D, of the same conformation as the eye of lug C, is forced into the said eye, and effectually secures the leg to the stove.

It is evident that this device is applicable to evaporating-pans, sugar-boilers, and other metal vessels, and is of equal advantage.

What I claim as new, and desire to secure by Letters Patent, is—

The pattern for casting attachment-lugs, consisting of the main portion having the upright branch a' and the separate detachable curved branch b', substantially as specified.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

HOSEA H. HUNTLEY.

Witnesses:
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J. A. SYLVESTER.